## ABSTRACT OF THE DISCLOSURE

A charge transfer device having: a semiconductor substrate; a charge transfer path formed in the semiconductor substrate and made of a first conductivity type semiconductor layer; a plurality of charge transfer electrodes formed near above the charge transfer path; and a first pulse signal generator circuit for applying either a first pulse signal train for n-phase (n being an integer larger than 1) driving of charges in the charge transfer path to the charge transfer electrodes or a second pulse signal train for (n + 1)-phase driving of charges in the charge transfer path to the charge transfer path to the charge transfer path to the charge

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